NC/QC/W-05/2020-21/AL-C1

Date: 03-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}
Ref.: Material testing/PMC/21-21,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.13 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.56 N/Sq mm	Shall not be less than 27 N/Sqmm

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/W-05/2020-21/AL-PCC1

Date: 03-06-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.25	0 -20	30- 70
10mm	31.50	0 -5	10- 35
4.75mm	4.15	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	98.45	60-95	75-100	85-100	
01.18	83.15	30-70	55-90	75-100	
600.mic	46.70	15-34	35-59	60-79	
300.mic	23.90	5-20	8-30	12-40	
150.mic	6.25	0-10	0-10	0-10	

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NC/QC/W-05/2020-21/AL-C2

1. TEST REPORT ON CEMENT:

Date: 08-06-2020

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}
Ref.: Material testing/PMC/21-21,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.83 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.36 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-05/2020-21/AL-PCC2 Date: 08-06-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.25**	0 -20	30- 70
10mm	**29.80**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**100.00**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**95.25**	60-95	75-100	85-100	
01.18	**82.75**	30-70	55-90	75-100	
600.mic	**46.30**	15-34	35-59	60-79	
300.mic	**24.15**	5-20	8-30	12-40	
150.mic	**7.05**	0-10	0-10	0-10	

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NC/QC/W-05/2020-21/AL-C3

Date: 12-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}
Ref.: Material testing/PMC/21-21,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.77 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.09 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-05/2020-21/AL-FA1

Date: 12-06-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}
Ref.: Material testing/PMC/21-21,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	**Percentage Passing**	Specification as Per IS: 383-1970(Reaffirmed 2002) **Percentage Passing**			Remarks
		Zone-I	**Zone-II**	**Zone -II**	
04.75	**95.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.65**	60-95	75-100	85-100	
01.18	**86.25**	30-70	55-90	75-100	
600. mic	**48.90**	15.34	35-59	60-79	
300.mic	**23.40**	5-20	8-30	12-40	
150.mic	**8.10**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	**Test Conducted**	**Sample**	**Results**	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.84 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/W-05/2020-21/AI-CAI

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials
(Project: Development and Improvements of Road, Drain and Covering Slabs in Agrahara Layout in Ward No.(15))

Date: 13-06-1949

Ref: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100 (0)	100 (0)
20 mm	97.35	85-100	90 - 100
10 mm	45.90	0 - 20	35 - 55
4.75 mm	3.78	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002)
1.	Flakiness Index	25.46 %	Not to exceed 35 %
2.	Crushing value	27.84 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/W-05/2020-21/AL-SSM1

Date: 12-06-2020

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1375.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

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NC/QC/W-05/2020-21/AL -SB1

Date: 17-06-2020

1. TEST REPORT ON PRE –CAST SOLID BLOCKS;

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1;

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/ mm^2**	**Average Compressive Strength N/ mm^2**
1	400 X 200 X 200	**Solid**	80000	355	4.44	**4.46**
2	,,	,,	80000	365	4.56	
3	,,	,,	80000	350	4.38	

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NC/QC/W-05/2020-21/AL–SB2

Date: 19-06-2020

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/ mm^2**	**Average Compressive Strength N/ mm^2**
1	400 X 200 X 200	**Solid**	80000	360	4.50	**4.52**
2	,,	,,	80000	350	4.38	
3	,,	,,	80000	375	4.69	

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NC/QC/W-05/2020-21/AL–SB3 Date: 22-06-2020

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/mm^2**	**Average Compressive Strength N/mm^2**
1	400 X 200 X 200	**Solid**	80000	380	4.75	**4.66**
2	,,	,,	80000	365	4.56	
3	,,	,,	80000	375	4.69	

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Ref: NC/BBMP/2020-21/AE-/384 Date: 17.06.2020

TEST REPORT ON PRE- CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

Name of the Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05)

Ref: Material testing/PMC/21-21.

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1.1:

Sl No	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	Solid	80000	355	4.43	4.51
2	"	"	80000	370	4.62	
3	"	"	80000	360	4.50	

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NC/QC/W-05/2020-21/AL-CB1

Date: 30-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-19	30-06-20	07	22500	300	13.33	**13.63**
	002	"	"	"	"	315	14.00	
	003	"	"	"	"	305	13.56	

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NC/QC/W-05/2020-21/AL-CB2

Date: 03-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}
Ref.: Material testing/PMC/21-21,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-19	03-07-20	07	22500	310	13.78	**13.56**
	002	"	"	"	"	305	13.56	
	003	"	"	"	"	300	13.33	

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NC/QC/W-05/2020-21/AL-CB3 Date: 06-07-2020

I. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05.}

Ref.: Material testing/PMC/21-21.

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. S K Keshavamurthy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-06-19	06-07-20	07	22500	295	13.11	**13.41**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	300	13.33	

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